Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A laser comprising:

a waveguide block having a least one waveguide channel formed therein;

a lasing gas including carbon dioxide within said waveguide channel; and

a laser resonator having a resonator axis extending through said waveguide

channel;

said waveguide block being located between electrodes arranged to energize said lasing gas such that laser radiation is generated in said laser resonator; and

wherein at least the channels of said waveguide block are formed substantially from a beryllium oxide ceramic material, and said laser radiation has a wavelength between about 9.2 and 9.7 micrometers.

- 2. (Original) The laser of claim 1, wherein said waveguide block includes a plurality of waveguide channels arranged end to end in a zigzag pattern and said resonator axis is folded by at least one mirror such that said resonator axis extends through said plurality of waveguide channels.
- 3. (Original) The laser of claim 2, wherein said waveguide block includes seven waveguide channels.
- 4. (Original) The laser of claim 1, wherein said laser resonator includes a Q-switch arrangement for causing said laser radiation to be generated as a train of laser pulses.
- 5. (Original) The laser of claim 1, wherein said lasing gas has a pressure between about 80 and 100 Torr and said waveguide channels have a depth greater than or equal to about 0.090 inch.

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- 6. (Original) The laser of claim 1, wherein said laser radiation is generated as repeated bursts of 3 or more laser pulses.
- 7. (Original) The laser of claim 6, wherein said bursts of pulses are repeated at a frequency of about 1 KHz or greater.
- 8. (Original) The laser of claim 1, wherein said laser radiation is generated as CW radiation.
- 9. (Original) The laser of claim 1, wherein said at least one and any other waveguide channels are covered by a plate of a beryllium oxide material.
- 10. (Original) The laser of claim 1, wherein said at least one and any other waveguide channels are covered by a titanium plate.
- 11. (Original) The laser of claim 1, wherein said waveguide block is formed of beryllium oxide ceramic.
 - 12. (Original) A laser comprising:

a waveguide block having a least one waveguide channel formed therein, said waveguide block being formed substantially from beryllium oxide;

a lasing gas including carbon dioxide within said waveguide channel; said waveguide block being located between electrodes arranged to energize said

lasing gas such that laser radiation is generated in said laser resonator; and

a laser resonator having a resonator axis extending through said waveguide channel, said laser resonator being terminated by mirrors having wavelength selective coatings configured to cause lasing at about 9.3 microns.

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